

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1

2

REMARKS

3 These remarks follow the order of the paragraphs of the office action. Relevant portions of the  
4 office action are shown indented and italicized.

5

*DETAILED ACTION*

6

*Claim Rejections -35 USC § 112*

7

8 *1. Claims 24-25,27 are rejected under 35 USC. 112, second paragraph, as being*  
9 *indefinite for failing to particularly point out and distinctly, claim the subject matter*  
10 *which applicant regards as the invention.*

11

12 *As to claims 24, 25, 27, the limitations of the claims recited on the program coding*  
13 *software in which depends on claims 23 that describing the claims of the system.*

14

15 In response, applicants respectfully state that that claim 24 reads,

16

17 24. (previously presented) An environment aware messages delivery method according to  
18 claim 21, further comprising the step of: providing an article of manufacture comprising a  
19 computer usable medium having computer readable program code means embodied  
20 therein for causing environment aware messages delivery, the computer readable program  
21 code means in said article of manufacture comprising computer readable program code  
22 means for causing a computer to effect the steps of making, selecting, and requesting.

23

24 Thus claim 24 is correctly shown to be dependent on claim 21 not claim 23. It is intended to  
25 protect the method of claim 21 furnished by one that furnishes an article of manufacture to do the  
26 steps of making, selecting, and requesting of claim 21. The limitation in claim 24 is indeed an  
27 additional method step of "providing ... ..," added to the steps of method claim 21.

28

29 Similarly, applicants respectfully state that that claim 25 reads,

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1 25. (previously presented) An environment aware messages delivery method according to  
2 claim 21, further comprising the step of: providing a program storage device readable by  
3 machine, tangibly embodying a program of instructions executable by the machine to  
4 perform method steps for environment aware messages delivery, said method steps  
5 comprising the steps of making, selecting, and requesting.

6 Thus claim 25 is correctly shown to be dependent on claim 21 not claim 23. It is intended to  
7 protect the method of claim 21 furnished by one that furnishes a program storage device to do the  
8 steps of making, selecting, and requesting of claim 21. The limitation in claim 25 is indeed an  
9 additional method step of "providing ... ..," added to the steps of method claim 21.

10 Similarly, applicants respectfully state that that claim 27 reads,

11 27. (previously presented) A message delivery service manager according to claim 23,  
12 further comprising computer program product means comprising a computer usable  
13 medium having computer readable program code means embodied therein for causing  
14 message delivery service management, the computer readable program code means in  
15 said computer program product comprising computer readable program code means for  
16 causing a computer to effect the functions of the cooperating means.

17 Thus claim 27 is correctly shown to be dependent on claim 23. It is intended to further protect  
18 the apparatus of claim 23 furnished by one that furnishes computer program product means to do  
19 the functions of the cooperating means of claim 23. The limitation in claim 25 is indeed an  
20 additional element of "computer program product means ... ..," added to the elements of  
21 apparatus claim 23. Thus the claim rejections under 35 USC § 112 of claims 24-25,27 are  
22 respectfully traversed, and claims 24-25,27 are indeed definite and allowable.

23 *Claim Rejections 35 USC § 103*

24 *The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all*  
25 *obviousness rejections set forth in this Office action:*

26 *(a) A patent may not be obtained though the invention is not identically disclosed]*  
27 *or described as set forth in section 102 of this title, if the differences between the subject*  
28 *matter sought to be patented and the prior art are such that the subject matter as a*

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1 whole would have been obvious at the time the invention was made to person having  
2 ordinary skill in the art to which said subject matter pertains. Patentability shall not be  
3 negated by the manner in which the invention was made.

4 2. Claims are elected under 35 U.S.C. 103(a) as being unpatentable over

5 Mousseau (US 200210194285).

6 As to claim 1, Mousseau teaches an environment aware message delivery system  
7 (figure 5 and paragraph 0020). comprising:

8 a portable message redirection agent carried by a user (2148); and a message  
9 delivery service manager (202) for managing candidate message terminals to provide  
10 message delivery services for the user, wherein when the user moving over to a place,  
11 said message redirection agent cooperates with said message delivery service manager  
12 located in the environment around the user to select a message terminal.

13 Xx fails to teach the user select a message terminal from candidate message terminals  
14 in the environment as a target message terminal, and request a message redirection  
15 entity to redirect the message addressed to the user to the target message terminal. Yy  
16 teaches the user select a message terminal from candidate message terminals in the  
17 environment as a target message terminal, and request a message redirection entity to  
18 redirect the message addressed to the user to the target message terminal (figure 9).  
19 Therefore, it would have been obvious to one of ordinary skill in the art at the time the  
20 invention was made to provide the teaching of yy into the system of xx in order to  
21 routing the calls automatically to desired telephone stations.

22 In response, applicants respectfully state that the present invention provides an environment  
23 aware message delivery system and method. The system and method provide a capability of  
24 automatic message delivery services based on a user's environment. According to the present  
25 invention, a message redirection agent cooperates with a message delivery service manager  
26 located in the environment around the user, to discover the message services available in the  
27 environment and to set message forwarding options automatically in the background without a  
28 user's operation. Also, according to the present invention, an environment aware message  
29 delivery system is provided to deliver message automatically for users. This is what the claims  
30 of the present application are claiming, including steps and/or functions not before provided by  
31 the referenced art.

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1 In contrast, the cited reference Mousseau, filed on December 19, 2002, allegedly provides, “[A]  
2 system and method for pushing information from a host system to a mobile data communication  
3 device upon sensing a triggering event is disclosed. A redirector program operating at the host  
4 system enables a user to continuously redirect certain user-selected data items from the host  
5 system to the user's mobile data communication device upon detecting that one or more  
6 user-defined triggering events has occurred. The redirector program operates in connection with  
7 event generating applications and repackaging systems at the host system to configure and detect  
8 a particular user-defined event, and then to repackage the user-selected data items in an  
9 electronic wrapper prior to pushing the data items to the mobile device. The system includes  
10 attachment processing components for identifying one or more attachment displayers in the  
11 vicinity of the mobile data communication device and then routing an attachment from the host  
12 system directly to a selected attachment displayer.” Thus Mousseau is concerned with, and  
13 directed to, a system and method for pushing information from a host system to a mobile data  
14 communication device upon sensing a triggering event is disclosed.

15 Claim 1 includes, “a message delivery service manager for managing candidate message  
16 terminals to provide message delivery services for the user, wherein when the user moving over  
17 to a place, said message redirection agent cooperates with said message delivery service manager  
18 located in the environment around the user to select a message terminal from candidate message  
19 terminals in the environment as a target message terminal, and request a message redirection  
20 entity to redirect the message addressed to the user to the target message terminal.” *Mousseau*  
21 doesn't manage message candidate message terminals, nor select a message terminal from  
22 candidate message terminals in the environment as a target message terminal. *Mousseau* doesn't  
23 teach, “a request a message redirection entity to redirect the message addressed to the user to the  
24 target message terminal.” *Mousseau* teaches pushing information from a host system to a mobile  
25 data communication device upon sensing a triggering, which is not the elements in claim 1.  
26 Applicants are not able to respond more particularly to a combination relative to unknown  
27 reference Xx and Yy. Thus claim 1 and all claims that depend thereupon are allowable over the  
28 cited art.

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1 *As to claim 2, Mousseau and yy teaches teaches a system according to claim 1,*  
2 *wherein said message redirection agent cooperates with said message delivery service*  
3 *manager in the environment around the user by means of a shod range wireless*  
4 *communication network (paragraph 0071).*

5 In response, applicants respectfully state that Mousseau [0071] reads:

6 The mobile data communication device 214B is configured to operate on the  
7 wireless network 212. In addition, the mobile data communication device 214B is  
8 preferably configured to operate on one or more short-range wireless frequencies  
9 in order to wirelessly communicate information 215A, 215B between the mobile  
10 device 214B and the attachment displayers 216. The mobile device 214B and the  
11 attachment displayers 216 could be Bluetooth.RTM.-enabled devices for  
12 communicating at the short-range frequencies associated with the Bluetooth  
13 wireless standard. Other short-range wireless standards could also be utilized.  
14 The frequencies at which the short-range communication link operate could be RF,  
15 microwave, cellular, optical, or Infrared frequencies. The attachment displayers  
16 216 are used by the mobile device 214B to process the attachment element 200B of  
17 the datagram 200, and may be one or more of the following devices: printers, fax  
18 machines, telephones, cellular phones, copying machines, video display, or any  
19 other type of device capable of processing an attachment.

20 Mousseau does not have a "message redirection agent" of claims 2, which is allowable over the  
21 cited art. Applicants are not able to respond more particularly to a combination relative to  
22 unknown reference Yy. Thus claim 2 and all claims that depend thereupon are allowable over  
23 the cited art.

24 *As to claim 3, Mousseau and yy teaches a system according to claim 2, wherein*  
25 *said short range wireless communication network is Bluetooth wireless communication*  
26 *network (paragraph 0071).*

27 *As to claim 5~ Mousseau and ~ teaches a system according to claim 1, wherein*  
28 *said message redirection agent runs in portable pervasive computing devices such as*  
29 *cell phone or PDA (214B).*

30 *As to claim 7, Mousseau and yy teaches a system according to claim 1, wherein*  
31 *said message redirection entity is PAX (paragraph 0033).*

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1        *As to claim 11, Mousseau and yy teaches a system according of claim 1, wherein*  
2        *said message redirection agent comprises a message redirection service discoverer for*  
3        *sending service requests to said message delivery service manager (paragraph 0053):*

4        *As to claim 15, Mousseau and w teaches a system according to claim 1, wherein*  
5        *said system comprises a plurality of message delivery service managers, running in*  
6        *various message terminals respectively (paragraph 0080)*

7        *As to claim 21 the claim is a method claim of claim 1; therefore the claim is*  
8        *interpreted and rejected as set forth as claim 1.*

9        *As to claim 22, the claim is 'an apparatus claim of claim 1; therefore the claim is*  
10       *interpreted and rejected as set forth as claim 1.*

11       *As to claim 23, Mousseau and yy teaches a message delivery service manager*  
12       *(figure 6, 202), characterized by:*

13       *when user moves over to a place, said message delivery service manager in the*  
14       *environment around the user cooperating with a portable message redirection agent*  
15       *carried by the user, selects a message terminal from the candidate message terminals in*  
16       *the environment as a target message terminal and requests a message, redirection entity*  
17       *to redirect the message addressed to the user to the target message terminal.*

18       In response, applicants respectfully state that Mousseau does not teach the invention in claim 1,  
19       or the other independent claims, apparently with or without the unknown references. Mousseau  
20       does not teach any of the claims that depend on claim 1, nor the particular elements in claim 23  
21       or the other claims, some of which serve for claim differentiation. A typographic error in claim  
22       23 is amended. Thus, claims 1, 2, 5, 7, 8, 11, 15-19, and 21-23 are allowable over the cited art.

23       *As to claim 26, the claim is a computer-program claim of claim 1; therefore the*  
24       *claim is interpreted and rejected as set forth as claim 1.*

25       In response, applicants respectfully state that it was shown that Mousseau does not make claim 1  
26       obvious. Furthermore protection of a computer program product not in the cited art is in itself  
27       novel. Thus claim 26 is similarly allowable over the cited art.

28       3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mousseau  
29       in view of Zhu (US 2003/0134596).

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1        *As to claim 4, Mousseau teaches a system according to claim 1, Mousseau fails to*  
2        *teach said message redirection agent cooperates with said message delivery service*  
3        *manager in the environment around the user by means of a USB interface.. Zhu teaches*  
4        *the message redirection agent cooperates with said message delivery service manager*  
5        *in the environment around the user by means of a USB interface (paragraph 010).*  
6        *Therefore! it would have been obvious to one of ordinary skill in the art at the time the*  
7        *invention was, made to provide the teaching of Zhu into the system of Mousseau in*  
8        *order to transmit and receive the data for the system.*

9        In response, applicants respectfully state that since Mousseau does not teach the invention in  
10       claim 1, thus Mousseau with or without Zhu, does not teach any of the claims that depend on  
11       claim 1, nor the particular elements claim 4. Thus, claim 4 is allowable over the cited art.

12       Furthermore, applicants respectfully state that there is no apparent reason to combine Zhu with  
13       Mousseau except for hindsight to try to form the elements claimed. This is not allowed. Since,  
14       Mousseau does not teach the invention in claim 1, thus Mousseau does not teach any of the  
15       claims that depend on claim 1, nor the particular elements in these claims, some of which serve  
16       for claim differentiation. Thus, claim 4 is allowable over the cited art.

17       4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mousseau  
18       in view of Logan (US'2005/0054290). -

19       *As to claim 6. Mousseau teaches a system according to claim 1, Mousseau fails to*  
20       *teach said message redirection agent runs in Blue badges. Logan teaches the message*  
21       *redirection agent runs in Blue badges (paragraph 0056). Therefore, it would have been*  
22       *obvious to one of ordinary skill in the art at the time the invention was made to provide*  
23       *the teaching of Logan into the system of Mousseau in order to local certain users who*  
24       *carry the blue badge.*

25  
26       In response, applicants respectfully state that Mousseau does not teach the invention in claim 1,  
27       thus Mousseau does not teach any of the claims that depend on claim 1, nor the particular  
28       elements claim 4. Thus, claim 4 is allowable over the cited art.

29       Also Logan, filed Date: July 17, 2003, is for, "[The] invention introduced in this patent  
30       application introduces a new Bluetooth Access Point, which applies the "sector idea" to its pico  
31       cell network and divides a pico cell into four (4) (but not limited to 4) pico sector of 90 degree.  
32       The access point thus implemented is denoted as Sectorized Access Point. The Sectorized Access

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Point utilizes only ONE microprocessor to communicate with four Bluetooth modules via either an embedded USB host controller with four ports to drive respective Bluetooth modules or UART interface with also ports to interface with respective Bluetooth modules. Each Bluetooth radio module acts as a master in its respective pico sector and takes care of up to seven (7) simultaneous Bluetooth enabled devices (called slaves in this cell). Therefore, the Access Point in this case can provide 28 users to access Internet at the same time, which is fourfold of any commercially available Bluetooth Access Point. The Sectored Access Point costs almost the same as normal access point, except 3 more Bluetooth radio modules and antennas, which contribute only about 10.about.20% of extra cost, but increase the capacity by four times."

Furthermore, applicants respectfully state that there is no apparent reason to combine Logan with Mousseau except for hindsight to try to form the elements claimed. This is not allowed. Since, Mousseau does not teach the invention in claim 1, thus Mousseau does not teach any of the claims that depend on claim 1, nor the particular elements in these claims, some of which serve for claim differentiation. Thus, claim 6 is allowable over the cited art

*Allowable Subject Matter,*

*Claims 13, 14, 16-18, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all at the limitations of the base claim and any intervening claims.*

*As to claims 13, 14, 16-18, 19, the teaching of above prior arts either alone or in combination fails to teach a message redirection service discoverer for sending service requests to said message delivery service manager, and receiving service information from said message delivery service manager and a message redirection manager for maintaining message redirection service list, configuring the message redirection policy and selecting the target message terminal.*

In response, applicants respectfully state that claim 13 is amended to include all the limitations of claim 1. Claim 15 is amended to depend on claim 13. Thus claims 13, 14, 16-18, 19 are allowable.

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1 *Claims 8, 10, 12, 20 are allowed as stated in the previous Office Action.*

2

3 In response, applicants respectfully state their appreciation for the allowed claims.

4 It is anticipated that this amendment brings the application to allowance of claims 1-8, 10-27.

5 Favorable action is respectfully solicited.

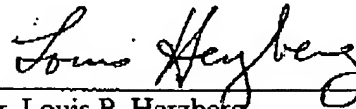
6 Please charge any fee necessary to enter this paper to deposit account 50-0510.

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Respectfully submitted,

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